

VRUBLEVSKIY, V.I., inzh.; ZHURLIVYY, R.N., inzh.; KRYZHANOVSKIY, O.M., inzh.

Automatic charge batching by means of a control computer. Mekh.1  
avtom.proizv. 15 no.10:45-47 0 '61. (MIRA 14:10)

(Electronic control)  
(Metallurgical furnaces—Equipment and supplies)

VRUBLEVSKIY, V.I., inzh.; KRYZHANOVSKIY, O.M., inzh.; PANASYUK, L.S.,  
inzh.; RAVICH, K.S., inzh.; SHCHUR, A.G., inzh.; GARNAZHENKO,  
I.O., inzh.; LEBEDEV, Ye.I., inzh.; PSAREV, A.M., inzh.;  
SALATSINSKIY, V.V., inzh.; SHOKAREV, V.A., inzh.

Over-all mechanization and automation of the composition of  
charge. Mashinostroenie no.6:45-47 N-D '62. (MIRA 16:2)

1. Institut liteynogo proizvodstva, AN UkrSSR (for Vrublevskiy, Kryzhanovskiy,  
Panasyuk, Ravich, Shchur). 2. Toretskiy mashinostroitel'nyy  
zavod (for Garnazhenko, Lebedev, Psarev, Salatsinskiy, Shokarev).  
(Cast iron—Metallurgy) (Automation)

KRYZHANOVSKIY, O.M.; VRUBLEVSKIY, V.I.; PUSHCHALOVSKIY, A.D.; SHUR, A.G.

Automatic control of the pouring of liquid iron. Lit.proizv.  
no.9:13-16 S '62. (MIRA 15:11)  
(Iron founding) (Automatic control)

16 100 S/021/62/000/009/004/008  
D234/D308

AUTHORS: Kryzhanovs'kyy, O.M., and Pushchalovs'kyy, A.D.  
TITLE: Principle of the theory of automatic proportioning  
of liquid metals  
PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 9,  
1962, 1170 - 1174

TEXT: The authors give three block diagrams of different systems of automatic proportioning. Differential equations describing the systems are formulated and conditions of stability are studied. The first kind of systems has a given program of rate of proportioning as a function of time, the condition of stability is an inequality containing five parameters.. The second kind has a program of variation of weight with time and is described by linearized differential equations. It is found that the transition processes are unstable, but may be stabilized by introducing the derivative of the signal of difference between the required and actual weight into the law of regulation; the condition of stability includes six parameters. The third kind has a given program of rate of proportioning as a  
Card 1/2

Principle of the theory of ...

S/021/62/000/009/004/008  
D234/D308

function of weight and is described by three linear and one nonlinear differential equations. It is stated that the dynamical problem of such systems can be solved with the aid of the methods of the theory of nonlinear control of automated hoists. Oscillograms of transition processes in such systems are given and found to be satisfactory in case of certain parameters. There are 3 figures. ✓/B

ASSOCIATION: Instytut lyvarnoho vyrobnytstva AN URSR (Institute of the Foundry Industry, AS UkrSSR)

PRESENTED: by Academician H.M. Savin, AS UkrSSR

SUBMITTED: January 26, 1962

Card 2/2

KRYZHANOVSKIY, O.M., doktor tekhn.nauk; SOLTYK, V.Ya.; PANASYUK, L.S.

Optimalizing control of billet heating in a soaking pit.  
Avtom.i prib. no.3:15-18 J1-S '62. (MIRA 16:2)

1. Institut liteynogo proizvodstva AN UkrSSR.  
(Furnaces, Heating) (Electronic control)

KRYZHANOVSKIY, O.M.; VRUBLEVSKIY, V.I.; ZHURLIVYY, R.N.

Computer automatically controlling the charging of a cupola.  
Lit.proizv. no.7:19-20 J1 '62. (MIRA 16:2)  
(Cupola furnaces—Equipment and supplies)  
(Electronic computers)

KRYZHANOVSKIY, O.M. [Kryzhanovs'kyi, O.M.]; PUSHCHALOVSKIY, A.D.  
[Pushchalovs'kyi, A.D.]

Fundamentals of the theory of automatic pouring of liquid metal.  
Dop. AN URSR no.9:1170-1174 '62. (MIRA 18:4)

1. Institut liteynogo proizvodstva AN UkrSSR.



KRIZHANOVSKIY, O.M.; SOLT'YK, V.Ya.

Optimum control of inertial industrial processes using an  
optimizing regulator with improved dynamic properties.  
Khim. prom. no.2:135-138 F '63. (MIRA 16:7)

1. Institut liteynogo proizvodstva AN UkrSSR.  
(Chemical industries)  
(Automatic control)

VRUBLEVSKIY, V.I., inzh.; YEREMEYEV, I.S., inzh.; KRYZHONOVSKIY, O.M., kand.  
tekhn.nauk

Automatic charging systems for cupola furnaces. Mekh.i avtom.  
proizv. 17 no.2:6-8 F '63. (MIRA 16:2)  
(Cupola furnaces) (Automatic control)

KUKHTENKO, Aleksandr Ivanovich, doktor tekhn. nauk; KRYZHANOVSKIY,  
O.M., doktor tekhn. nauk, retsenzent; KOVAL'CHUK, A.V., inzh.,  
red.izd-va; STARODUB, T.A., tekhn. red.

[The invariance problem in automatic control] Problema in-  
variantnosti v avtomatike. Kiev, Gostekhnizdat USSR, 1963. 375 p.  
(MIRA 17:3)

KRYZHANOVSKIY, Oleg Mikhaylovich; VRUBLEVSKIY, Vladislav Iosifovich;  
ANTONENKO, Vladimir Timofeyevich; TITOVA, N.M., red.

[Automation of cupola furnaces] Avtomatizatsiia vagranok.  
Kiev, Izd-vo AN USSR, 1963. 103 p. (MIRA 17:5)

KRYZHANOVSKIY, O.M. [Kryzhanovs'kyi, O.M.] (Kiyev); BOKIT'KO, I.I. (Kiyev);  
PUSHCHALOVSKIY, A.D. [Pushchalovs'kyi, A.D.] (Kiyev)

Relay systems in automatic dosing-out and pouring of liquid metals.  
Avtomatyka 9 no.6:44-54 '64. (MIRA 18:1)

GORSHKOV, A.A.; VRUBLEVSKIY, V.I.; KRYZHANOVSKIY, O.M.; KACHURIN, Yu.P.;  
LUZAN, P.P.

Preparation of the cupola charge for conditions of mechanization  
and automation. Lit. proizv. no.4:48, 3 of cover Ap '64.  
(MIRA 18:7)

PODLIPENSKIY, Viktor Semenovich; KRYZHANOVSKIY, O.M., doktor  
tekhn. nauk, retsenzent; YEREMIEV, I.S., Kand. tekhn.  
nauk, retsenzent; IMAS, R.L., red.

[Contactless logical automatic control networks; funda-  
mentals of their design] Beskontaktnye logicheskie skhemy  
avtomatiki; osnovy postroeniia. Spravochnoe rukovodstvo.  
Kiev, Naukova dumka, 1965. 214 p. (MIRA 19:1)

KRYZHANOVSK, I. I.; *Izv. Akad. nauk;* PROKOPENKO, L. I.; SHCHUR, A. G.

Automation of the pouring of steel. *Avtom. i prib. no. 1:*  
1965. (MIRA 18:8)



**"APPROVED FOR RELEASE: 04/03/2001**

**CIA-RDP86-00513R000826920012-1**

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**CIA-RDP86-00513R000826920012-1"**

L 12977-66 EWT(1)/EWA(h)

ACC NR: AP6001522

SOURCE CODE: UR/0302/65/000/004/0066/0068

AUTHGR: Kryzhanovskiy, O. M.; Muzykant, A. M.; Panasyuk, L. S.; Tartak, V. G.; Fedorenko, A. G.

ORG: None

39  
B

TITLE: An oscillator based on switching diodes for generating three-cycle current pulses for magnetic logic elements

SOURCE: Avtomatika i priborostroyeniye, no. 4, 1965, 66-68

TOPIC TAGS: logic element, magnetic core storage, pulse oscillator, junction diode

ABSTRACT: A three-cycle pulse generator based on diodes has been developed by the Institute of Foundry Problems AN UkrSSR (Institut problem lit'ya). The generator (Fig. 1) is a ring-type three-place 1/2-wave shift register. The elements in the register are three-winding transformers  $Tr_1$ - $Tr_3$  (ferrite cores with rectangular hysteresis loop) and switching diodes  $D_5$ - $D_{10}$  connected in series with junction diodes  $D_2$ - $D_4$ . The cadence pulse source for the register is an RC relaxation oscillator. The load is connected in the cathode circuit of the switching diodes. In the initial state, diodes  $D_5$ - $D_{10}$  are closed and capacitors  $C_2$ - $C_4$  are charged nearly to the voltage of the power supply. The oscillator is triggered by prerecording a "1" in two elements of the shift register, e.g.  $Tr_1$  and  $Tr_2$ . With the first cycle of the master oscillator, both "1's" are transcribed and pulses are shaped in the  $W_1$  windings of these transformers which open switching diodes  $D_5$ ,  $D_6$ ,  $D_7$  and  $D_8$  simultaneously.

Card 1/3

UDC: 621.373.54

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ACC NR: AP6001522

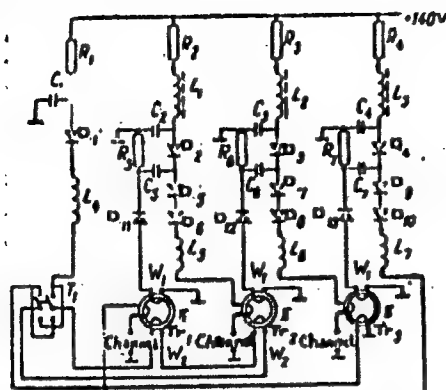


Fig. 1. Principle diagram of the generator.

ously through transfer circuits  $D_{11}-C_5-R_5$  and  $D_{12}-C_6-R_6$ . The discharge current from capacitors  $C_2$  and  $C_3$  generates a corresponding current pulse in the load: in circuit  $D_5, D_6$ —a blocking pulse from channel I recording a "1" in  $Tr_2$ ; in circuit  $D_7, D_8$ —an advancing pulse from channel II recording a "1" in  $Tr_3$ . Upon completion of the capacitor discharge, diodes  $D_5-D_8$  are opened and the capacitors are charged through charging resistors  $R_2$  and  $R_3$  and coils  $L_1$  and  $L_2$  connected in series with these resistors. On the next cycle of the master oscillator, diodes  $D_7, D_8$  and  $D_9, D_{10}$  are opened, shaping a blocking pulse in channel II and an advancing pulse in channel III, respectively. These pulses record a "1" in  $Tr_3$  and  $Tr_1$ . With the third cycle of the master oscillator, the diodes for channels I and III are opened, generating

Card 2/3

L 12977-66

ACC NR: AP6001522

a blocking pulse in channel III and an advancing pulse in channel I, and a "1" is recorded in  $Tr_1$  and  $Tr_2$ . Recording and readout are automatic. The original "1" is recorded on the cores of transformers  $Tr_1$  and  $Tr_2$  by reversing the direction of current in the  $W_2$  windings of these transformers through switch  $T_1$ . The switching diodes used in the device give advancing pulses with a current amplitude of 6 a with a load of up to 500 magnetic logic elements at a prf of 1—1.5 kc. The pulse duration is 6  $\mu$  sec with a leading edge slope of 2.5 a/ $\mu$ sec. Orig. art. has: 4 figures.

SUB CODE: 09 / SUBM DATE: none / ORIG REF: 003

Cord 3/3

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**CIA-RDP86-00513R000826920012-1"**



KRYZHANOVSKIY, O.N., inzh.

Decrease in the loading effect of a UEK-3 regulator on a power  
transformer. Elek.sta. 33 no.12:79 D '62. (MIRA 16:2)  
(Electric power distribution)

KRYZHANOVSKIY, P.I., kand. tekhn. nauk

Electrolytic chrome plating with alternating current of various  
cathode and anode components. Sbor. nauch. trud. KGRi no.16:  
376-381 '61 (MIRA 17:8)

KRYZHANOVSKIY, P.I., kand.tekhn.nauk

Effect of electrolytic processes on the nature of the change  
in current components and potential. Sbor. nauch. trud. KGRI  
no.7:331-340 '59. (MIRA 16:9)  
(Electroplating)

KRIZHANOVSKIY, P.I., kand.tekhn.nauk

Polarization in electrodeposition of nickel with alternating current.  
Sbor. nauch. trud. KQRI no.7:341-348 '59. (MIRA 16:9)  
(Nickel--Metallurgy) (Electroplating)

S/137/62/000/002/110/1-  
A060/A101

AUTHOR: Kryzhanovskiy, P. I.

TITLE: On the problem of electrolytic deposition of chromium under the action of alternating current with differing ratio of the cathodic and the anodic components

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 90, abstract 21618 ("Sb. nauchn. tr. Krivorozhsk. gornorudn. in-t", 1961, no. 10, 376 - 381)

TEXT: The Cr deposition was carried out from a vat with composition  $\text{CrO}_3$  255 g/liter and  $\text{SO}_4^{2-}$  2.00 g/liter under the action of trapezoidal-shaped current with period 0.22 sec. A grey colored Cr deposit was obtained as result. As the density of the anodic component of the current grows, the current efficiency decreases continuously and the color of the deposit changes from grey to black. As the anodic component of the current increases the cathodic component remaining constant, the deviation of the cathodic potential of the electrode polarization relative to its stationary value changes from a positive to a negative value. There are 8 references.

[Abstracter's note: Complete translation]  
Card 1/1

Ye. Layner

KRYZHANOVSKIY, P.I.

Polarization of chromium by a current of variable polarity.

Izv.vys.ucheb.sav.jkhim.i khim.tekh. 5 no.3:457-461 '62.

(MIRA 15:7)

1. Krivorozhskiy gornorudnyy institut, kafedra khimii.

(Chromium plating) (Polarization (Electricity))

L 18418-63  
ACCESSION NR: AP3005897 EWP(g)/EWT(m)/BDS AFPTC/ASD JD/WB  
S/0153/63/006/003/0459/0464

AUTHOR: Kryzhanovskiy, P. I.

TITLE: Electrocorrosion of titanium in aggressive media

SOURCE: IVUZ. Khimiya i khimicheskaya tekhnologiyam, v. 6, no. 3,  
1963, 459-464

TOPIC TAGS: titanium, electrocorrosion, mineral acids, platinum,  
sulfuric acid, nitric acid, phosphoric acid

ABSTRACT: Author studied the corrosion stability of titanium in mineral acids under the influence of constant and variable currents, and also clarified the possibility of hydride film formation on the surface of titanium during its treatment with a variable current. A conclusion was made on the basis of the polarization curves and the preliminary experiments, concerning the possibility of utilizing titanium in acidic vats as corrosion-resistant electrodes, providing an electrical contact with carbides, nitrides and platinum. It was shown that, during anodic treatment of titanium in sulfuric, nitric

Card 1/2

L 18418-63

ACCESSION NR: AP3005897

and phosphoric acids at certain gravities, the electrocorrosion rate decreases with time and levels down to a stationary state. An assumption was made that the reduction of anodic potential of polarization in nitric acid solutions is the result of formation of nitriles on the surface of titanium. It was shown that the hydride film formation on the titanium surface was accelerated if gaseous hydrogen was bubbled to its surface. A hypothesis has been advanced on the various effects of peak-type and active-type components of current on the nature and rate of dissolution of titanium during its treatment in acids with variable current. Orig. art. has: 5 tables and 3 figures.

ASSOCIATION: Dnepropetrovskiy metallurgicheskiy institut (Dnepropetrovsk metallurgical institute), Kafedra fizicheskoy i kolloidnoy khimii (Department of physical and colloid chemistry)

SUBMITTED: 10Apr62

DATE ACQ: 16Sep63

ENCL: 00

SUB CODE: CH

NO REF SOV: 008

OTHER: 004

Card 2/2



KRYZHANOVSKIY, P. S.

Technology

(Dressing tools on anode-mechanical machines). Moskva, Mashgiz, 1951.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

ΚΟΣΜΑΣΧΕΥ. 1. G

(7) **RECEIVED**  
 (8) **RECEIVED**

SHOW/1204

serissima, Dr. M., B. G. Quikin, A. P. Deschamps, and Dr. I. Fladimirov

Polimernyye plastmassy i stirovyy v metallo elektromagnitnykh svoystvakh (Properties and Uses of Metals) Moscow, Mashinostroyeniye, 1972. 93 p. (Series: Biblioteka elektromagnitnykh, No. 4) 6,000 copies printed.

[illegible]

**F. E. Engineer.**  
**Subject:** This booklet is intended for technologists working in the field of electrical manufacturing processes and for skilled workers.

**CONCLUSIONS:** The booklet presents basic principles of the electrophoretic machining of holes and overplating in metals. Information on electrophoretic equipment is given and some examples of applications of electrophoretic machining methods are presented. The following recommendations were obtained during the work on the introduction to the development of electrophoretic technology: E. I. Zaslavskiy, E. I. Zaslavskaya, and V. A. Osmer. For the purpose of increasing the productivity of electrochemical machining, the electrolyzed masses of aluminum (patent No. 160789)

### Electromagnetic Method of Cutting Circuits (Cont.)

**FOR YOU**

[illegible][illegible]

# I

**CH 203**

25(1)

PHASE I BOOK EXPLOITATION

SOV/1482

Kosmachev, I.G., P.S. Kryzhanovskiy, and P.D. Klimchenkov

Anodno-mekhanicheskoye zatachivaniye tverdosplavnogo instrumenta  
(Electrolytic Sharpening of Hard-alloy Tools) Moscow, Mashgiz,  
1952. 104 p. (Series: Bibliotekha elektrotekhnologa, vyp. 3)  
10,000 copies printed;

Ed. (Title page): V.N. Gusev, Engineer, Laureate of the Stalin Prize;  
Ed. (Inside book): V.I. Slonimskiy, Candidate of Technical Sciences  
(Deceased); Tech. Ed.: L.V. Sokolova; Managing Ed. for Literature  
on Machine-building Technology (Leningrad Division, Mashgiz):  
P.S. Nikitin, Engineer

PURPOSE: This booklet is intended for technologists working in the field of application of electrical processes as well as for qualified workers.

COVERAGE: Described are existing methods of sharpening hard-alloy tools, electrolytic sharpening of machine tools, fixtures, sharpening discs and methods of sharpening cutters and multiple cutting-edge tools. Examples are given of sharpening helical drills, milling cutters, countersinking, reaming and other tools.

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Electrolytic sharpening (Cont.)

80V/1482

The personalities mentioned in the foreword are the authors of other titles in this series of publications on electro-machining methods. No bibliography is given.

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80V/1482

Electrolytic sharpening (Cont.)

10. Discs	51
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12. Sharpening of multiple cutting-edge tools	59
13. Sharpening of form cutters	91
14. Layout of the electrolytic sharpening areas.	

Appendixes:

I. Instrutions for Operating Electrolytic Sharpening Machine-tools  
Maintenance  
Preparation for starting

II. Safety Techniques

AVAILABLE: Library of Congress

Card 3/3

GO/emp  
5-8-59

KRYZHANOVSKIY, P. S.

6662. Anodno--mekhanicheskiy stanok dlya rezki metalla tipa AMO-150, (Konstruktsiya P. S. Kryzhanovskogo). L., 1954. 12s. s ill.; I L. skhem. 21 sm. (Vsesoyuz. o-vo po rasprostraneniyu polit. i nauch. znaniy. Leningr. dom nauch.-tekhn. propaganda. Listok novatopa. No. 30. (269)). 3,800 Ekz. 30K.--Avt. uka-zan v knotse teksta--  
54-15533zh/ 621.93 + 621.7 9/ : 541.13

SO: KNIZHANYA LETOPIS' NO. 6, 1955

SARKISOV, S.A., prof., red.; ADRIANOV, O.S., red.; KRYZHANOVSKIY,  
R.N., red.; PARIN, V.V., red.; POLYAKOV, G.I., red.;  
POPOVA, Ye.N., red.; PORTUGALOV, V.V., red.; RABINOVICH,  
M.Ya., red.; TROFIMOV, L.G[deceased], red.; ARKHANGEL'SKIY,  
Yu.V., red.

[Structure and function of the nervous system; transactions  
of a scientific conference, December 10 - 14, 1960] Struktura  
i funktsiia nervnoi sistemy; trudy nauchnoi konferentsii  
(10-14 dekabria 1960 g.) Moskva, Medgiz, 1962. 358 p.  
(MIRA 17:12)

1. Deystvitel'nyy chlen AMN SSSR (for Sarkisov).

SOLGALOV, E.V., gor. inzh.; KRYZHANOVSKIY, S.A., gornyy inzh.

Dust removal during boring. Gor.zhur. no.12:63 D '64.

(MIRA 18:1)

1. Nauchno-issledovatel'skiy gornorudnyy institut, Krivoy Rog.



KRYZHANOVSKIY, Sergei Grigor'evich

1891-1961

1961

Embryology

DECEASED

KRYZHANOVSKIY, V.A.

IA 29/45T5

USSR/Electricity  
Turbogenerators  
Testing and Standardization

Sep 48

"Results of Performance Tests of the First Soviet  
Turbogenerator With Capacity of 100,000 Kilowatts  
and Operating at 3,000 RPM," V. A. Kryzhanovskiy,  
Engr, 3 pp

"Elek Stants" No 9

Presents results of experiments with new turbo-  
generator. Discusses failure of babbit bearing  
linings, governor defects, bearing vibration, rotor  
axial clearance safety relay, and breakdowns.

20/49T5

RYZHANOVSKIY, V.

IA 66/49T105

USSR/Radio - Reception  
Interference

Aug 49

"Reception in Automobiles," V. Ryzhanovskiy,  
3 pp

"Radio" No 8

Notes that electrical equipment in automobiles  
is a main source of radio interference. Normal  
operation of automobile radios and radio-  
amateur sets could only be achieved by sup-  
pression of this interference. Describes in  
detail means for installing suppressors and  
filters in ignition systems. Stresses  
importance of carrying out resolution of

66/49T105

USSR/Radio - Reception  
(Contd)

Aug 49

Council of Ministers (4 Feb 47) for in-  
stalling suitable noise filters on all  
automobiles.

66/49T105

*Kryzhanovskiy V.A.*

AUTHORS: Prokopenko, A.G., Engineer, Krushel', G.Ye., Doctor of  
Technical Sciences and Kryzhanovskiy, V.A., Engineer

96-58-2-2/23

TITLE: Unit-Starting of a 150-kW Installation (Blochnyy push  
ustanovki moshchnost'yu 150 Mgt)

PERIODICAL: Teploenergetika, 1958, No 2, pp 8 - 18 (USSR)

ABSTRACT: The Cherepet' Power Station contains 150-kW unit-type sets. A schematic diagram of the main steam piping is given in Fig.1. Ever since commissioning, the set has been troublesome to start, mainly because of difficulties with heating of the steam pipes and turbines. Firing of the boilers did not contribute to the delay. Figures for the duration of the starting period with various methods of starting up a set are given in Table 1 and show that the staff has succeeded in cutting the starting time to 75 - 85 hours. However, even now when a set is started, the staff have to work very hard for several days and there are great losses of heat. In three years of operation, the set was started fourteen times. As large base-load hydro-electric stations come into use, it becomes necessary to take steam stations off the line during light load periods, particularly at weekends. However, because of the time it takes these large steam turbines to cool down or warm up, it is very difficult to remove load from them at weekends. Hence, after smaller sets elsewhere had successfully been

Card1/5

Unit - Starting of a 150-MW Installation

95-58-2-2/25

started on the unit system, heating up the boiler and turbine together, it was decided to try this procedure at Cherepovets. Some of the auxiliary equipment, such as oil pumps which had previously been driven by high-pressure steam, were accordingly provided with electric drive. For making observations during the starting tests, a number of thermo-couples were installed on the cylinder flanges and walls. Permissible temperature differences in various parts of the turbine were calculated and are given in Table 2. On the basis of these figures, acceptable temperature and pressure conditions for starting were charted, as shown in Table 3.

The conditions obtaining during three experimental starts are given in Tables 1, 4 and Fig.4 and the durations of the starts are plotted in Fig.3. The first experimental start was made immediately after a major overhaul. This circumstance imposed its own delay because newly-installed thermal insulation had to be dried out and the set left to cool for thirteen hours to a temperature of 130 °C. It was then started up, using boiler No.1. When the set was running, boiler No.2, which had been started up in the usual way, was connected. It was found that at low pressures, the safety valves did not give a perfect seal

Card 2/5

Unit-Starting of a 150-LW Installation

95-96-2 2/23

and it was difficult to create sufficient vacuum in the condensers. The turbine reached synchronous speed 2 hours and 50 minutes after lighting the boiler and was run at that speed for 6 hours 45 minutes whilst the generator protection was checked. The alternator was then synchronized and a 4-LW load applied. After the load had been raised to 45 LW, the second boiler was connected and the load was increased to 90 LW. Although this first start was made immediately after major overhaul, it took much less time than the normal method and the conditions in the plant were favourable. It was, therefore, decided to make further starts. In the second start, the turbine was run up to speed in 1 hour 15 minutes and was synchronized after a further 44 minutes. Temperature differences in the boilers during the start are given in Fig.5 and were not excessive. In particular, the superheaters were operating under easier conditions than during normal operation. The speed of heating-up the turbine, which governed the rate of heating of the set as a whole, was restricted by the necessity to limit temperature differences in the austenitic flanges (see Table 2). The rate of heating of the steam pipes and fittings and of the reheat piping was much less than during normal starts.

Card 3/5

Unit-Starting of a 150-MW Installation

96-58-2-2/6

A third experimental start was made, followed by two more before the sets had properly cooled down. On the basis of the experience so far gained, a unit start was made on set No.2 immediately after major overhaul without drying out the thermal insulation. The duration of this start from lighting the boiler to reaching full speed was about 5 hours. As a result of the tests, it was possible to draw up a recommended timetable for starting up a cold set consisting of two boilers type T17-240-1 and a 150-MW turbine. With this timetable, given graphically in Fig.9, the temperature differences in the austenitic flanges do not exceed the values permitted by the manufacturers. Calculations are made of the fuel economy that results from using the new method of starting and this is shown to be 116 tons of conventional fuel per start. The economy of electric power for house service requirements is 37 400 kWh per start.

The tests confirmed the advantages and reliability of unit starting. The reduction in starting time makes it possible to stop a set during light-load periods of 36 - 48 hours duration. Planned stoppages should be made by gradually reducing the steam conditions. The rate of starting is limited by the need to restrict the temperature differences in the austenitic steel

Card4/5

Unit-Starting of a 150-MW Installation

96-58-2-2/23

parts. It would be advisable to arrange for external heating of flanges, to further speed up starting. If the new method of starting is standardized, it will be possible to use fewer fittings on the steam piping. When starts are made, it is necessary to ensure that the live and reheat steam temperatures change strictly according to programme. Sudden changes of temperature must not be permitted. It is, therefore, desirable to install injection steam-coolers at the superheater outlets. Special precautions are also prescribed for starting up a set that has not thoroughly cooled. There are 8 figures, 4 tables and 2 Russian references.

ASSOCIATION: Southern Division of ORGRES (Yuzhnoye otdeleniye ORGRES), L'vov Polytechnical Institute (L'vovskiy politekhnicheskii institut) and Cherepet' Regional Electric Power Station (Cherepetskaya GRES)

AVAILABLE: Library of Congress  
Card 5/5 1. Power systems-Starting



KRYZHANOVSKIY, V.A., inzh.; CHERNOV, A.P., inzh.

Starting and turning on units of superhigh steam parameters.  
Elek.sta. 29 no.11:14-18 N '58. (MIRA 11:12)  
(Electric power plants) (Steam, High-pressure)

BELOUSOV, V.S., obshchiy red.; KRYZHANOVSKIY, V.A., obshchiy red.;  
SHUKHER, S.M., red.; LANTONOV, G.I., tekhn.red.

[Operation of the Cherepets State-owned Regional Electric  
Power Plant] Opyt ekspluatatsii Cherepetskoi GRES. Moskva,  
Gos.energ.izd-vo, 1959. 302 p. (MIRA 12:9)  
(Cherepets--Electric power plants)

KRYZHANOVSKIY, V.A., inzh.

Fifth anniversary of the Cherepet State Regional Electric Power Plant.  
Elek.sta. 30 no.1:5-8 Ja '59. (MIRA 12:3)  
(Cherepet--Electric power plants)

KRYZHANOVSKIY, V.A., inzh.

Conference on gas turbines. Elek. sta. 31 no.8:91-93  
Ag '60.

(MIRA 14:9)

(Gas turbines--Congresses)

KRYZHANOVSKIY, V.A., inzh.

Studying the conditions of the passage of moist coal through  
the fuel conveying and processing systems. Teploenergetika 9  
no.11:47-51 N '62. (MIRA 15:10)

1. Tulenergo.

(Electric power plants—Fuel systems) (Coal preparation)

ACCESSION NO: APH012336

S/0096/64/000/001/0006/0012

AUTHOR: Kryzhanovskiy, V. A. (Engineer)

TITLE: Generalization of austenitic steel observation results at Cherepet GRES

SOURCE: Teploenergetika, no. 1, 1964, 6-12

TOPIC TAGS: austenitic steel, steam pipe, boiler, crack development, butt, weld, steam turbine

ABSTRACT: An account of 10 years' use and development of austenitic steels for steam pipes and boilers is presented. Details of various pipe failures and crack developments during the evolution of austenitic steel since 1953 are reviewed. The design changes in steam pipes, welding and heat treating techniques, improvements in the natural strengths of steels through various alloy systems, and increased severity of steam pressure and temperature requirements are outlined. The use of EI257 as well as 1Kh18N12T steels has been found to be unreliable for GRES works. The application of Tst26 electrodes for butt welds and high-temperature "austenization" is shown to have improved reliability of steam pipes. Welded joints in small austenite steel tubes have shown no through cracks. The present

Card 1/2

ACCESSION NR: AP4012336

components of s.h.p. steam turbines and steam armatures made of austenitic steels EI695, EYa3S, EI572, EI405, and LA1 perform satisfactorily, whereas those of steel LA3, used earlier, were quite unreliable. The author suggests the necessity for establishing a scientific research group to investigate improving techniques for utilizing butt welds in austenitic steam pipes with large diameters (219 x 27 mm), to develop new techniques in securing steam-pipe steels capable of withstanding 580-650C, and to conclude work on Kh16N9M2 steel and to verify its usefulness in steam armatures. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Tulenergo

SUBMITTED: 00

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: ML

NO REF SOV: 000

OTHER: 000

Card 2/2

KRYZHANOVSKIY, V.A., inzh.; CHALENKO, G.N., inzh.; DEYEV, L.V., inzh.;  
KOVALEV, A.P., doktor tekhn. nauk, prof.; KHZMALYAN, L.M.,  
kand. tekhn. nauk

Increase of slagless power of boilers operating on coal of the  
Moscow region. Teploenergetika 11 no.4:10-15 Ap '64.

1. Tulaenergo i Moskovskiy energeticheskiy institut. (MIRA 17:6)



AMSHINSKIY, N.N.; MARIICH, I.V.; MOLCHANOV, V.I.; ORLOVA, L.I.;  
GORB, A.M.; KUZNETSOV, Yu.A., nauchn. red.; SMORCHKOV,  
I.Ye., nauchn. red.; KRYZHANOVSKIY, V.A., ved.red.

[Accessories of the granitoids of the Altai and methods  
for studying them] Aktsessorii granitoidov Altaia i me-  
todika ikh izucheniia. Moskva, Nedra, 1964. 175 p.

(MIRA 17:10)

1. Chlen-korrespondent AN SSSR (for Kuznetsov).

KRYZHANOVSKIY, V.A., inzh.; ZHURAVLEV, Yu.A., inzh.;  
SADOF'YEVA, L.N., inzh.; KOSTYUKHIN, V.G., inzh.

Corrosion products in the water and vapor channel of a high-  
pressure thermal electric power plant. Elek. sta. 35 no.5:  
11-14 My '64. (MIRA 17:8)

KRYZHANOVSKIY, V.

25937. Priem v avtomobile. Radio, 1949, No 8, s. 23-25.

SO: Knizhnaya Letopis', Vol. 1, 1955

KRYZHANOVSKIY, V

D

Radiopriyem na avtomobile. (Radio reception in automobiles) Moskva. voyennoye Ministerstvo SSSR, 1951.

179 p. Diagra.

Cataloged from abstract.

On problems of automobile radio reception. Data for various types of automobile receivers.

KRYZHANOVSKIY, V.D.

PHASE I BOOK EXPLOITATION

SOV/3650

Kostykov, Yuriy Vasil'yevich, and Vladimir Dmitriyevich Kryzhanovskiy

Osnovy televideniya (Fundamentals of Television) Moscow, Voen.  
izd-vo M-va obor. SSSR, 1959. 389 p. No. of copies printed not  
given.

Ed.: M.V. Krylov; Tech. Ed.: M.P. Zudina.

PURPOSE: This book is intended for officers, noncommissioned officers,  
and private soldiers desiring to broaden their knowledge of tele-  
vision engineering. It may also be useful to the general reader.

COVERAGE: The book discusses physical and electrical foundations of  
modern black-and-white, color, and stereoscopic television and  
photo transmission (facsimile) systems. Some military uses of the  
television equipment are mentioned in the introduction and briefly  
described in the closing chapter of the book. Chapters I, II, III,  
VII, XI, XIII, XIV, XVI and XX were written by Yu.V. Kostykov,  
chapters IV, V, VI, VIII, IX, X, XV, XVII, XVIII, and XIX by V.D.  
Kryzhanovskiy, and chapter XII by both authors. There are 57  
references: 50 Soviet (2 of which are translations), 5 English,  
and 2 French.

Card 1/11

KOSTYKOV, Yuriy Vasil'yevich; KRYZHANOVSKIY, Vladimir Dmitriyevich;  
YAKOVLEVA, L.A., red.; SOKOLOVA G.F., tekhn.red.

[Principles of television] Osnovy televideniia. Izd.2.,  
perer. i dop. Moskva, Voen.isd-vo M-va oborony SSSR, 1961.  
421 p. (MIRA 14:12)  
(Television)

KRYZHANOVSKIY, V. G.

"Pulse Rate Changes During Mental Work." *Cardiol Biol Sci*, Kiev State U  
Ireni T. G. Shevchenko, Min Higher Education USSR, Kiev, 1955. (KL, No 18, Apr 55)

SO: Sum. No 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations  
Defended at USSR Higher Educational Institutions (16).

KRYZHANOVSKIY, V.G.; OKHRIMENKO, A.P.; GONCHARUK, G.A. (Kiyev)

Organization of labor in manual cultivation of sugar beet  
crops and its improvement. Gig.truda i prof.sab. 3 no.2:51  
Mr-Ap '59. (MIRA 12:6)

1. Institut gigiyeny truda i profzabolevaniy.  
(SUGAR BEETS) (AGRICULTURE--HYGIENIC ASPECTS)



LEYNIK, M.V., prof.; KRIZHANOVSKIY, V.O., kand.biolog.nauk (Kiyev)

Contribution of the Kiyev Institute of Labor Hygiene and Occupational  
Diseases to the development of the Soviet physiology of labor. Vrach.  
delo no.9:987 3 '59. (MIRA 13:2)

(INDUSTRIAL HYGIENE)

~~KRYZHANOVSKIY~~, V.G. [Kryzhanivs'kyi, V.H.]

Third scientific conference on the physiology of labor. Fiziol.  
zhur. [Ukr.] 6 no. 5:694-697 S-O '60. (MIRA 13:10)

1. Kiyevskiy institut gigiyeny truda i profzabolevaniy;  
(WORK—CONGRESSES)

KRYZHANOVSKIY, V. G., kand. biologicheskikh nauk

Work hygiene for students. Zdorov'e 8 no.11:16-18 N '62.  
(MIRA 15:10)

(SCHOOL HYGIENE)

KRYZHANOVSKIY, V.G.

Effect of intellectual activity on blood pressure in brachial  
and temporal arteries. Fiziol. zhur. 49 no.12:1440-1446 E '63.  
(MIRA 17:12)

1. From the Department of Occupational Physiology, Institute of  
Occupational Hygiene and Professional Diseases, Kiev.

NAVROTSKIY, Dmitriy Ivenovich; KRYZHANOVSKIY, V.I., kand.tekhn.nauk,  
retsensent; SAYML'IN, V.M., kand.tekhn.nauk, red.;  
SIMONOVSKIY, N.Z., red.isd-vs; SPERANSKAYA, O.V., tekhn.red.

[Strength of welded joints] Prochnost' svernykh soedinenii.  
Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry, 1961.  
174 p. (MIRA 14:4)  
(Welding--Testing)

KARASIK, M.Ye., inzh.; KRONFEL'D, B.D., inzh.; KONOPEV, V.G., inzh.; KRYZHANOVSKIY, V.M., inzh.; ABRAGAM, S.R., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Organization of construction works during the electrification of railroads; experience of the construction organizations of the Ministry of Construction for Transportation] Organizatsiia stroitel'nykh rabot pri elektrifikatsii shleznykh dorog; opyt stroitel'nykh organizatsii Mintransstroia. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va puti soobshcheniia, 1960. 65 p. (MIRA 14:7)  
(Railroads—Electrification) (Railroad engineering)

1941-1942, V.M.

quarter of a year of building steel tracks. Transp. strol. 14  
1941-1942. In '64 (MIRA 19:8)

1. Nachal'nik upravleniya stroitel'stva Bermatroyat'.

STOLYAR, V.S.; BABENKO, Yu.A.; KRYZHANOVSKIY, V.N.

Problems concerning combustion in block combustion chambers of  
gas turbine systems. Energ. i elektrotekh. prom. no.3:20-24  
J1-S '63. (MIRA 16:10)

1. Kiyevskiy politekhnicheskij institut.



KONDAK, M.A., doktor tekhn. nauk; KRYZHANOVSKIY, V.N., inzh.

Intensification of combustion processes in the combustion chambers  
of gas turbine systems operating on natural gas. Energ. i elektro-  
tekh. prom. no.3:34-36 J1-S '64.

(MIRA 17:11)

Copy of the lettering is attached to the central gas supply. Energy  
10-11-1964. (MIRA 14-5)

KONDAK, M.A., doktor tekhn.nauk; KRYZHANOVSKIY, V.N., inzh.

High temperature stress combustion chamber of a gas turbine  
system operating on natural gas. Energ. i elektrotekh. prom.  
no.2128-30 Apr-Je '65. (MIRA 1818)

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826920012-1

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R000826920012-1"

2.  $V =$  volumetric flow rate in the chamber  $V = \pi r^2 \frac{dr}{dt}$

L 29953-66 ENI(m)/T RE

ACC NR: AR6003723

SOURCE CODE: UR/0285/65/000/009/0013/0013

AUTHOR: Kondak, M. A.; Kryzhanovskiy, V. N.; Batyuk, G. S. 78  
B

TITLE: Stability of the combustion process and stabilization of the perforated screen //

SOURCE: Ref. zh. Turbostroyeniye, Abs. 9.49.120

REF SOURCE: Vestn. Kiyevsk. politekhn. in-ta. Ser. teploenerg., no. 1, 1964, 25-29 III

TOPIC TAGS: combustion research, thermal stress, natural gas, gas turbine engine, ~~combustion chamber~~, ~~combustion~~

ABSTRACT: Combustion chambers for promixed natural gas and air with stabilizing perforated screens of various design were investigated. It was established that the thermal stress of the firebox can reach  $210 \cdot 10^6$  kcal/m<sup>3</sup>/h. Combustion is practically 100%. It covers the whole range of operations of gas turbine engines and industrial burners of various applications. Such types of combustion chambers will have wide use in engines operating on natural gas. 5 figures. T. Gonikberg

SUB CODE: 21/ SUBM DATE: none

Card 1/1 CC

L 29532-66 — EWT(d)/EWT(m)/I/EWP(f) — JW/WE

ACC NR: AR6003725

SOURCE CODE: UR/0285/65/000/009/0021/0021

AUTHOR: Savel'yev, Yu. N.; Batyuk, G. S.; Kryzhanovskiy, V. N.

68  
B

TITLE: Increasing the reliability of a jet igniter 1')

SOURCE: Ref. zh. Turbostroyeniye, Abs. 9.49.142

REF SOURCE: Vestn. Kiyevsk. politekhn. in-ta. Ser. teploenerg., no. 1, 1964, 40-44

TOPIC TAGS: gas turbine engine, combustion research, natural gas, ignition, LIQUID FUEL IGNITER

ABSTRACT: Jet-type igniters were developed and tested. The most successful was one designed with two V-shaped stabilizers. A jet formed behind the first one ignites the gas in the second, the main stabilizer. The time of spark-plug exposed to the higher temperatures is decreased to 4 to 5 sec., thus increasing the reliability and life-time of the spark-plug. The igniters are recommended for use in gas turbine units working on natural gas. T. Gonikberg.

SUB CODE: 21/ SUBM DATE: none/

Card 1/1 LS

UDC: 621.438.001.5

KRYZHANOVSKIY, Vladimir Petrovich[Kryzhanivs'kyi, V.P.]; CHERNOV,  
M.P., red.; NEMCHENKO, I.Yu., tekhn. red.

[Our contribution to the building of communism] Nash vklad  
u budivnytstvo komunizmu. Kyiv, Derzh.vyd-vo sil's'ko-  
hospodars'koi lit-ry USSR, 1962. 104 p. (MIRA 16:5)

1. Zavedujushchij kolkhozom "Mayak" Cherkaskogo rayona  
Cherkaskoy oblasti (for Kryzhanovskiy).  
(Collective farms--Production standards)



KRYZHANOVSKIY, V.V.; SAF'YENTS, I.I.; TUMUL'KAN, A.D.; YANUSHKOVSKIY, V.A.

Radioactive method for marking rolled steel. Zav.lab. 22 no.3:297-302  
'56. (MIRA 10:5)

1. Staleprokatnyy i provolochno-kanatnyy zavod im. V.M. Molotova i  
Institut fiziki Akademii nauk Latvyskoy SSR.  
(Steel) (Radioisotopes--Industrial applications)

SOV/137-58-9-19010

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 124 (USSR)

AUTHORS: Kryzhanovskiy, V.V., Saf'yants, I.I., Tumul'kan, A.D.,  
Yanushkovskiy, V.A.

TITLE: An Experiment in Radioactive Labeling of Steel Under Industrial Conditions at the Leningrad Steel Rolling Plant (Opyt primeneniya radioaktivnoy markirovki stali v proizvodstvennykh usloviyakh Leningradskogo staleprokatnogo zavoda)

PERIODICAL: Tr. In-ta fiz. AN LatvSSR, 1957, Vol 10, pp 49-59

ABSTRACT: A description is provided of a method for labeling steel in the process of production developed at the Physics Institute, Academy of Sciences, Latvian SSR, and the personnel of the Leningrad Steel Rolling Plant. The essence of the method is that the radioactive substance of an electrode made by facing radioactive P to electrolytically pure Cu is applied to steel tape by electric spark. The label of the grade of steel is the number of radioactive marks applied by this method. The grade of steel is determined by gages, the pick-ups of which consist of an STS-8 halogen counter. Expressions are adduced for evaluation of the amount of radioactive substance needed for a given

Card 1/2

SOV/137-58-9-19010

- An Experiment in Radioactive Labeling of Steel (cont.)

marking and the time required to apply it. The organization of the labeling process in the cold-rolling shop of the Leningrad Steel Rolling Plant is described.

A.F.

1. Steel--Processing    2. Radioactive substances--Applications

Card 2/2

KRYZHANOVSKIY, V.V.

AUTHOR: Kryzhanovskiy, v.v. and Fedorov, n.m., Engineers. <sup>133-7-23/28</sup>

TITLE: The Development of Production of Springs for Watches.  
(Razvitiye proizvodstva chasovykh pruzhin)

PERIODICAL: Stal', 1957, no.7, pp. 656 - 657 (USSR).

ABSTRACT: The production of steel strip for manufacturing springs for watches was developed in 1950 and I.A. Savinkov and M.I. Zlotnikov developed and introduced a new technology of manufacturing spiral springs (no data given) into normal practice. The automation of the manufacturing process was to be developed by the Ministry of Production of Instruments and Means of Automation (MP and SA). The Ministry, however, after some delay, requested permission of the Ministry of the Iron and Steel Industry to design an automatic process for manufacturing S-like springs which were not produced in the USSR. Results of tests of imported Swiss S-springs (from stainless, non-magnetic steel) and their comparison with those of spiral springs produced by the works from carbon steel are compared (table). It is concluded that S-like springs are not superior to spiral springs. The twice longer life of S-springs is ascribed to the superiority of the quality of steel. It is pointed out that as the cost of special steel is 5 times higher than that of carbon steel, it would be cheaper to produce springs

Card 1/2

133-7-23/28

The Development of Production of Springs for Watches.

from carbon steel and change them every 20 years (mean service life).

There are 1 table, 2 figures and 2 Slavic references.

ASSOCIATION: "Molotov" Leningrad Steel Rolling and Wire Cable Works.  
(Leningradskiy Staleprokatnyy i provolochno-kanatnyy  
Zavod im. Molotova)

AVAILABLE: Library of Congress.

Card 2/2



ARTEM'YEV, D.Ye.; KRYZHANOVSKIY, V.V.

Errors of models designed for studying internal overvoltages in  
a.c. power distribution networks. Izv. NIPT no.6:216-237 '60.  
(MIRA 14:7)

(Electric power distribution--Models)

ARTEM'YEV, D.Ye.; KRYZHANOVSKIY, V.V.; SHUR, S.S.

Field testing of commutating dischargers. Izv. NIPT no.8:  
229-258 '61. (MIRA 15:7)

(Electric protection)  
(Electric power distribution--Direct current)



ARTEM'YEV, D.Ye., inzh.; KHYZ'IANOVSKIY, V.V., inzh.

Prospects of using a commutating discharger with air arc  
quenching. Elek. sta. 34 No.8:45-53 Ag '63. (MIRA 16:11)

ARTSEM'YEV, D.Ye., inzh., FRYMANOVICH, V.V., inzh.

Characteristics of the idle operation of power transformers.  
Elek. sta. 35 no.5:43-46 My '64. (MIRA 17:8)

Крыжановский, Ye.  
KRYZHANOVSKIY, Ye., inshener; SAMOYLOVICH, N., inshener.

Miners introduce a collective economy plan. Mast.ugl.3 no.3:13 Mr '54.  
(MLRA 7:4)  
(Coal mines and mining)

ALININ, A.Ya., vedushchiy red.-sostavitel'; KRYZHANOVSKIY, Ye.M., red.-sostavitel'; GRINBERG, I.M., red.-sostavitel'; RAKUMA, P.F., red.

[Building and architecture abroad] Stroitel'stvo i arkhitektura za rubezhom. Kiev, Nauchno-issl.in-t vnedreniya peredovogo opyta v stroit. i tekhn.informatsii, 1960. 165 p.

(MIRA 13:12)

1. Akndemiya stroitel'stva i arkhitektury USSR. 2. Deystvitel'nyy chlen Akndemii stroitel'stva i arkhitektury USSR (for Bakuma).  
(City planning) (Construction industry)

L 24341-66 ENT(1)/FMA(R) OS

ACC NR: AT6005906

SOURCE CODE: UR/0000/65/000/000/0250/0268

AUTHOR: Kryzhe, L

ORG: None

TITLE: An all-purpose statistical analyzer 25

SOURCE: International Federation of Automatic Control. International Congress. 2d, Basel, 1963. Tekhnicheskiye sredstva avtomatiki (Technical means of automation); trudy kongressa. Moscow, Izd-vo Nauka, 1965, 250-268

TOPIC TAGS: statistical analysis, computer design, analog computer, computer technology/  
MUSA 6 analog computer

ABSTRACT: This report describes an investigation of the principles of constructing a specialized computer capable of employing the methods of statistical dynamics. The computer is designed to perform all the basic functions of statistical analysis: 1) autocorrelation and mutual-correlation functions; 2) the Fourier integral; and 3) distribution functions. The level of development of computer technology in Czechoslovakia at the beginning of the work determined the approach to the design and technological development of the computer. It is an electronic analog computer with a 6-channel magnetic-tape store, called the magnetophone universal statistical analyzer with six channels (MUSA-6). The computer requires the following stages in processing stochastic processes: a) recording the characteristics of the controlled plant; b) transmission of the data received to the computer store; and c) reproduction and processing of the data. The computer is also capable of solving some nonstatistical (e.g., calculation of Card 1/2

L 24341-00

ACC NR: AT6005906

the convolution integral) and other problems. Orig: art. has: 13 figures and 27 formulas.

SUB CODE: 09 / SUBM DATE: 23Jun65 / ORIG REF: 002 / OTH REF: 009

Card 2/2 *plw*



BONDYREV, A., obshchestvennyy instruktor, parashyutist; KILIMNIK, A.  
(s.Vyazovok, Gorodishchenskogo); GLADKOV, N., zasluzhennyy master  
sporta; KOVGANOV, V. (Gr.dno); KRYZHENKO, Vl. (pos.Tomilno,  
Moskovskoy oblasti)

Facts, events, people. Kryl.rod. 14 no.1:12-13 Ja '63.  
(MIRA 16:1)

(Aeronautics)



EL'KIND, L.A., dotsent; KRYZHENKOV, A.N., dotsent; KAMBULIN, N.A.; SULTANOV, T.G.

Morphological changes in the thyroid gland under the influence  
of *Lycopus europaeus*. Sbor.nauch.lend.TashGMI 22:435-439 '62.

(MIRA 18:10)

1. Kafedra gistologii (ispolnyayushchiy obyazannosti zav. kafedroy -  
dotsent L.A.El'kind); kafedra organicheskoy khimii (zav. kafedroy -  
dotsent N.A.Kryzhenkov) i kafedra farmakologii (zav. kafedroy -  
prof. N.N.Kompantsev) Tashkentskogo gosudarstvennogo meditsinskogo  
instituta.

KOMPANTSEV, N.N., prof.; BABADZHANOV, S.N., prof.; KAMBULDI, N.A., dotsent  
KRYZHENKOV, A.N., dotsent; BANNOVA, Ye.A., assistant

Study of the anthelmintic properties of plants in Uzbekistan.  
Med. zhur. Uzb. no.6:24-27 Je'63 (MIRA 17:3)

1. Iz kafedr farmakologii i obshchey gigiyeny Tashkentskogo  
meditsinskogo instituta.

KRYZHENKOV, A.N., kand.biologicheskikh nauk, professor; KREYTSBERG, V.E.,  
starshiy toksikolog

Hygienic evaluation of products exposed to methyl bromide. Gig. i  
san. 22 no.7:86-88 J1 '57.  
(MIRA 10:10)

1. Iz Tashkentskogo meditsinskogo instituta i Uzbekskoy karantinnoy  
laboratorii.

(INSECTICIDES, effects,  
methyl bromide, on food prod. during fumigation (Rus))  
(BROMIDES, effects,  
methyl, on food prod. during fumigation (Rus))  
(FOOD,  
eff. of methyl bromide fumigation (Rus))

YUNUSOV, A.Yu., akademik, otv.red.; VOLYNSKIY, A.S., prof., red.; IZRAEL',  
A.I., prof., red.; KAMILOV, I.K., kand., red.; KRYZHENKOY, A.N., kand.  
biol.nauk, red.; SADYKOV, A.S., prof., red.; SAGATOV, R.S., kand.  
med.nauk, red.; TURAKULOV, Ya.Kh.; kand.biol.nauk, red.; KHAYRUT-  
DINOV, Kh.Sh., kand.biol.nauk, red.; KHASHIMOV, I.Kh., prof., red.;  
YAKOVENKO, Ye.P., red.isd-va; SHARIKOVA, V.P., tekhn.red.

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Pharmacologists of Central Asia and Kazakhstan] Materialy I Konferentsii  
fiziologov, biokhimikov i farmakologov Srednei Azii i Kazakhatana.  
Tashkent, Izd-vo Akad.nauk Uzbekskoi SSR, 1958. 647 p. (MIRA 12:3)  
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